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### (54) Biopsy guide

(57) A surgeon can select an entry point and a target point in a preoperative image volume of the patient. The target point and entry point form a trajectory line (28) along with the surgeon wishes to perform a surgical procedure such as a biopsy and line up a surgical instrument. In the present invention, once a surgical platform (10/22) is moved along a guide arm or arc (12) close to a point on the trajectory line (28) the surgical platform (22) is locked to the guide arm (12). A pivot point position at the centre of a ball joint (26) in the middle of a metal plate is then arranged to be exactly at a point on the trajectory line (28). The metal plate is locked down and the ball joint (26) is rotated to ensure that the surgical sleeve (24) extends exactly along the trajectory line (28). This allows a decoupling between the position and orientation movements required to line the surgical sleeve (24) up with the trajectory line (28) to perform a surgical procedure. An interoperative localization device (ILD) is used to track the position of the surgical guide relative to the image space.

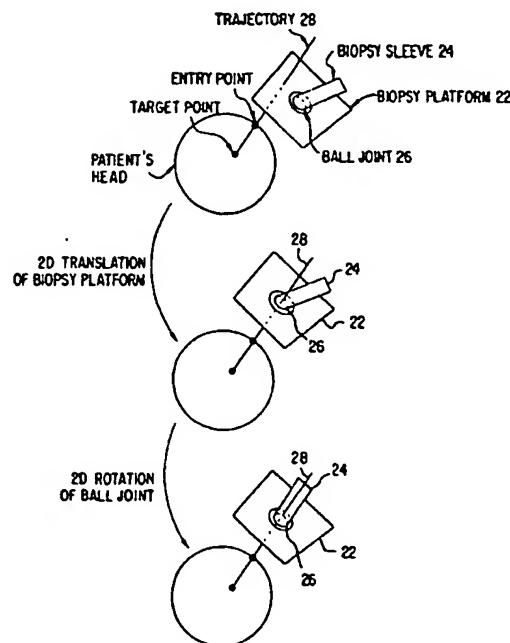


FIG. 4

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# PARTIAL EUROPEAN SEARCH REPORT

Application Number

which under Rule 45 of the European Patent Convention EP 97 30 7600  
shall be considered, for the purposes of subsequent  
proceedings, as the European search report

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	WO 95 22297 A (IMPLICO) 24 August 1995 * page 4, line 5 - page 5, line 27 * ---	1,2	A61B17/34 A61B10/00 A61B19/00
X	US 3 457 922 A (RAY) 29 July 1969 * column 2, line 69 - column 3, line 25 * ---	1	
X	US 5 320 628 A (UFKIN) 14 June 1994 * column 3, line 25 - column 4, line 2 * ---	1	
A	US 3 115 140 A (VOLKMAN) 24 December 1963 * claim 1 * -----	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			A61B
INCOMPLETE SEARCH			
<p>The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for these claims.</p> <p>Claims searched completely : 1,2</p> <p>Claims searched incompletely : 3,4</p> <p>Claims not searched : 3,4</p> <p>Reason for the limitation of the search: Article 52 (4) EPC - Method for treatment of the human or animal body by surgery Article 52 (4) EPC - Method for treatment of the human or animal body by surgery</p>			
Place of search		Date of completion of the search	Examiner
THE HAGUE		4 August 1998	Glas, J
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<p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p>			

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